

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) An anastomosis device, comprising:

a first plurality of arcuate members arranged in a first position in a cylindrical crown shape with each arcuate member having a pair of legs with an arcuate bend therebetween and with each leg overlapping at least one leg of an adjacent arcuate member;

a second plurality of arcuate members arranged in a first position in an inverted cylindrical crown shape with each arcuate member having a pair of legs with an arcuate bend therebetween, and with each leg overlapping at least one adjacent arcuate member of the second plurality and connected by the connecting member to a leg of an arcuate member of the first plurality;

a plurality of coupling members joining an end of each leg of the first plurality of arcuate members with a respective end of a corresponding leg of the second plurality of arcuate members, wherein the joining by the coupling members brings at least a portion of the end of each leg of the first plurality of arcuate members into direct contact with least a portion of the respective end of a corresponding leg of the second plurality of arcuate members;

wherein the legs of the arcuate members of the first plurality are attached to the respective arcuate member of the second plurality by a connecting member;

wherein the legs of the arcuate members of the first plurality are attached to the respective arcuate member of the second plurality by a rigid connecting member, a petal formed by the first arcuate member actuating generally in a plane with the respective attached arcuate members pivoting about a cylindrical midpoint of the anastomosis device wherein, when the connected first and second plurality of arcuate members are in a first position, the anastomosis device forms a woven hollow tube with the first and second plurality of arcuate members extending proximally and distally in a slidably woven sinusoid with the arcuate bends of the first plurality of arcuate members at a distal

end of the anastomosis device and the arcuate bends of the second plurality of arcuate members at a proximal end of the anastomosis device, the woven hollow tube formed by the anastomosis device defining a longitudinal axis and the coupling members defining a circle of discrete couplings about a midpoint of the longitudinal axis; and

wherein the woven hollow tube thus-formed by the anastomosis device is operably configured to transform into a second position comprising forming a substantially flattened hollow rivet shape with each arcuate member of the first plurality of arcuate members being outwardly deflected from [[a]]the longitudinal axis of its respective cylindrical crown toward apposing arcuate members of the other cylindrical crown; a second plurality of arcuate members, wherein the first and second plurality of arcuate members are deflectable from the longitudinal axis by pivoting each of the joined first and second plurality of arcuate members about their respective coupling member to bring the first plurality of arcuate members into circular juxtaposition with the second plurality of arcuate members.

2. through 13. (canceled)

14. (currently amended) A method of forming an anastomosis device, comprising:
 - forming a first plurality of arcuate members;
 - arranging the first plurality of arcuate members into a first position in a cylindrical crown shape with each arcuate member of the first plurality of arcuate members having legs overlapping at least one adjacent arcuate member of the first plurality of arcuate members;
 - forming a second plurality of arcuate members;
 - arranging in a first position in an inverted cylindrical crown shape with each arcuate member of the second plurality of arcuate members having legs overlapping at least one adjacent arcuate member of the second plurality of arcuate members; and
 - connecting an end of each leg of an arcuate member of the first plurality of arcuate members to an end of a respective adjacent leg of an arcuate member of the second plurality of arcuate members with a corresponding connecting member to fixedly secure the ends of the legs together in direct contact with each other, wherein the act of

connecting results in a slidably woven tube being formed by first plurality of arcuate members, the second plurality of arcuate members, and the connecting members;

wherein the slidably woven tube thus formed-is operably configured to transform from the slidably woven hollow tube into a second position comprisingforming a substantially flattened hollow rivet shape with each arcuate member outwardly deflected from a longitudinal axis of its respective cylindrical crown toward apposing arcuate members of the other cylindrical crown by pivoting each of the joined first and second plurality of arcuate members about their respective connecting member to bring the first plurality of arcuate members into circular juxtaposition with the second plurality of arcuate members.

15. (previously presented) The method of claim 14, wherein forming the first and second pluralities of arcuate members further comprises bending a length of shape memory effect alloy wire.

16. (canceled)

17. (currently amended) The method of claim [[16]]14, wherein the end of each leg includes at least a portion of a snap fit connector and the step of attaching one of the ends of the first plurality of connecting members between aligned to the end of the respective adjacent legs leg of the first and second plurality pluralities further comprises affixing a snap fit member the snap fit connectors together.

18. (currently amended) The method of claim [[16]]14, wherein attaching one of the ends of the first plurality of connecting members between aligned to the end of the respective adjacent legs leg of the first and second plurality pluralities further comprises applying a glue material to each pair of contacting ends of the first and second pluralities of arcuate members.

19. (currently amended) The method of claim [[16]]14, wherein attaching one of the plurality of connecting members between aligned legs of the first and second pluralities further

comprises ultrasonically welding each end of the first plurality of arcuate members with the respective end of the second plurality of arcuate members.

20. (currently amended) The method of claim ~~[[16]]~~14, wherein attaching one of the plurality of connecting members between aligned legs of the first and second pluralities further comprises applying a thermally melted ~~polymer~~ adhesive to the ends of the first and second pluralities of arcuate members.